Overview

Also Known As: disproportionate dwarf and eye defect

Homozygous mutants show dwarfing with shortened limbs and fused toes on back feet. Retinal dysplasia is also seen in homozygotes.

GENETIC OVERVIEW

Genetic Background | Generation
**dde**

<table>
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<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Spontaneous</td>
<td><em>dde</em></td>
<td>disproportionate dwarf and eye defect</td>
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**RESEARCH APPLICATIONS**

- Sensorineural Research
- Reproductive Biology Research
- Apoptosis Research
- Developmental Biology Research

**BASE PRICE**

Starting at:

$2,854.50 Domestic price Cryo Recovery

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**Details**

**Detailed Description**

*dde* homozygotes have disproportionate dwarfing evident at birth by shortened limbs, although the axial skeleton appears normal. The back feet have fused toes. Retinal dysplasia presents as white lines in the retina and electroretinaograms show abnormal rod and cone function. Males are sterile and females are poor breeders and poor mothers, often requiring foster mothers to rear the pups. The lifespan of homozygotes varies with some dying shortly after wean and others surviving to approximately one year of age. Ailments identified in homozygotes include emphysema, stomach polyp, apoptotic cells of the testis, thyroid cysts, holes in the thoracic chord white matter, and holes in the skeletal muscle fibers in the leg. While it has been proposed that *dde* may offer a model for Walker-Wardburg syndrome, this has not yet been proven.

**Development**

**Control Suggestions**

**Selected References**

**Genetics**

**dde**
Genotyping Protocols
Genotyping resources and troubleshooting

Breeding Considerations
Homozygous females are often poor mothers and foster mothers are needed to support the pups. Meal should be added into the cage so that it is accessible to the homozygous dwarf pups and these pups should be housed with the parents longer than the usual 3 weeks prior to wean.

Additional Breeding and Husbandry Support

Citation
When using the disproportionate dwarf and eye defect mouse strain in a publication, please cite the originating article(s) and include JAX stock #010822 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions
Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

Cryorecovery - Domestic Pricing

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<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
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<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for dde</td>
<td>$2,854.50</td>
</tr>
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Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.
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